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Dated: 7-21-4 Signature: Carol Mitchell
(Carol Mitchell)

Docket No.: 47253-00003USPX
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Cecilia Brandel et al.

Application No.: 09/826729

Confirmation No.: 6051

Filed: April 5, 2001

Art Unit: 2655

For: METHOD OF ESTIMATING THE PITCH OF
A SPEECH SIGNAL USING A BINARY
SIGNAL, USE OF THE
METHOD, AND A DEVICE ADAPTED
THEREFOR

Examiner: M. A. Lewis

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JUL 30 2004

Technology Center 2600

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A copy of each reference on the PTO/SB/08 is attached.

07/28/2004 BABRAHA1 00000031 100447 09826729

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In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 10-0447 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 47253-00003USPX. A duplicate copy of this paper is enclosed.

Dated: July 21, 2004

Respectfully submitted,

By 

Ross T. Robinson

Registration No.: 47,031

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number 09/826729-Conf. #6051

Filing Date April 5, 2001

First Named Inventor Cecilia Brandel

Art Unit 2655

Examiner Name M. A. Lewis

Attorney Docket Number 47253-00003USP

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-4,015,088	03-29-1977	Dubnowski et al.	
	A2	US-4,081,605	03-28-1978	Kitawaki et al.	
	A3	US-4783807	11-08-1988	Marley	
	A4	US-5,121,428	06-09-1992	Uchiyama et al.	
	A5	US-5,784,532	07-21-1998	McDonough et al.	
	A6	US-5,970,441	10-19-1999	Mekuria	
	A7	US-6,047,254	04-04-2000	Ireton et al.	
	A8	US-2001/0021906	09-13-2001	Chihara	
	A9	US-6,377,915	04-23-2002	Sasaki	
	A10	US-6,418,407	07-09-2002	Huang et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	EP 0 538 877	04-28-1993	Jaswant R. Jain		English
	B2	EP 0 712 116	05-15-1996	Kumar Swaminathan et al.		English

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	Linear Prediction Analysis; TONY ROBINSON; Speech Vision Robotics Group; 1 Page.	
	C2	Quick Overview of Linear Predictive Coding (LPC) Analysis; 1 Page.	
	C3	5.3 Linear Prediction Analysis; 3 Pages.	
	C4	PLP-Perceptual Linear Predictive Analysis; 4 Pages.	
	C5	Linear Prediction; 2 Pages.	
	C6	The Spectral Autocorrelation Applied to the Linear Prediction Residual of Speech for Robust Pitch Detection; E. CHILTON et al.; XP-002146623; Pages 358-361.	
	C7	Performance Comparison of Five Pitch Determination Algorithms on the Linear Prediction Residual of Speech; E.H.S. CHILTON et al.; XP 000010751; 5 Pages.	
	C8	Digital Processing of Speech Signals; LAWRENCE R. RABINER et al.; 7 Pages.	

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Examiner Signature		Date Considered	
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